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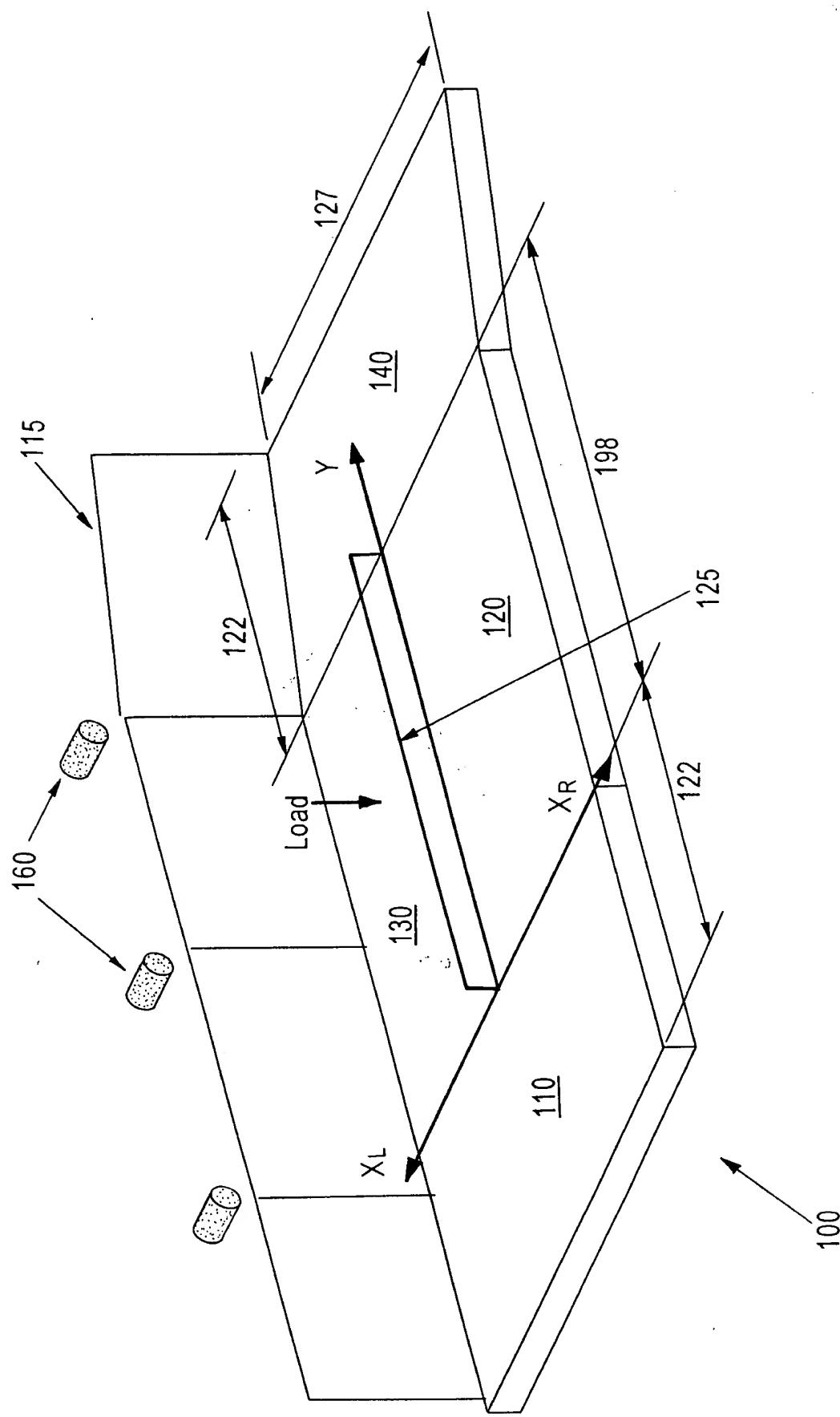


FIG. 1(a)

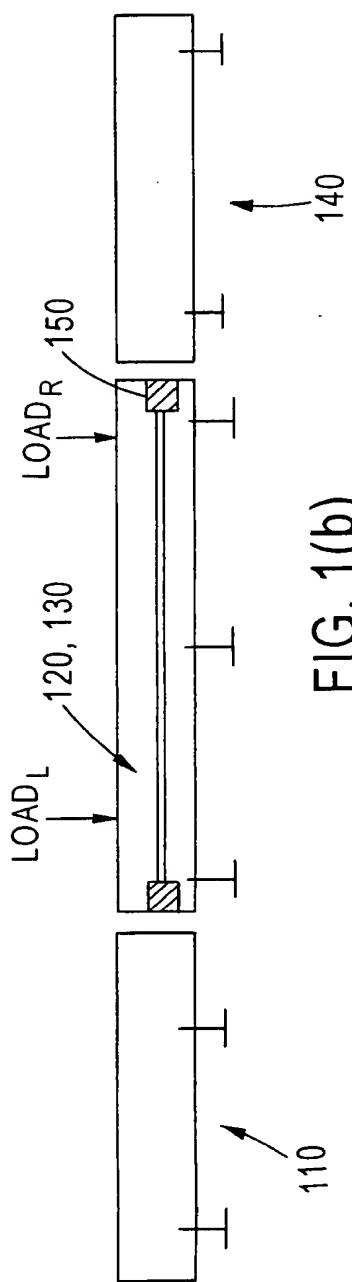


FIG. 1(b)

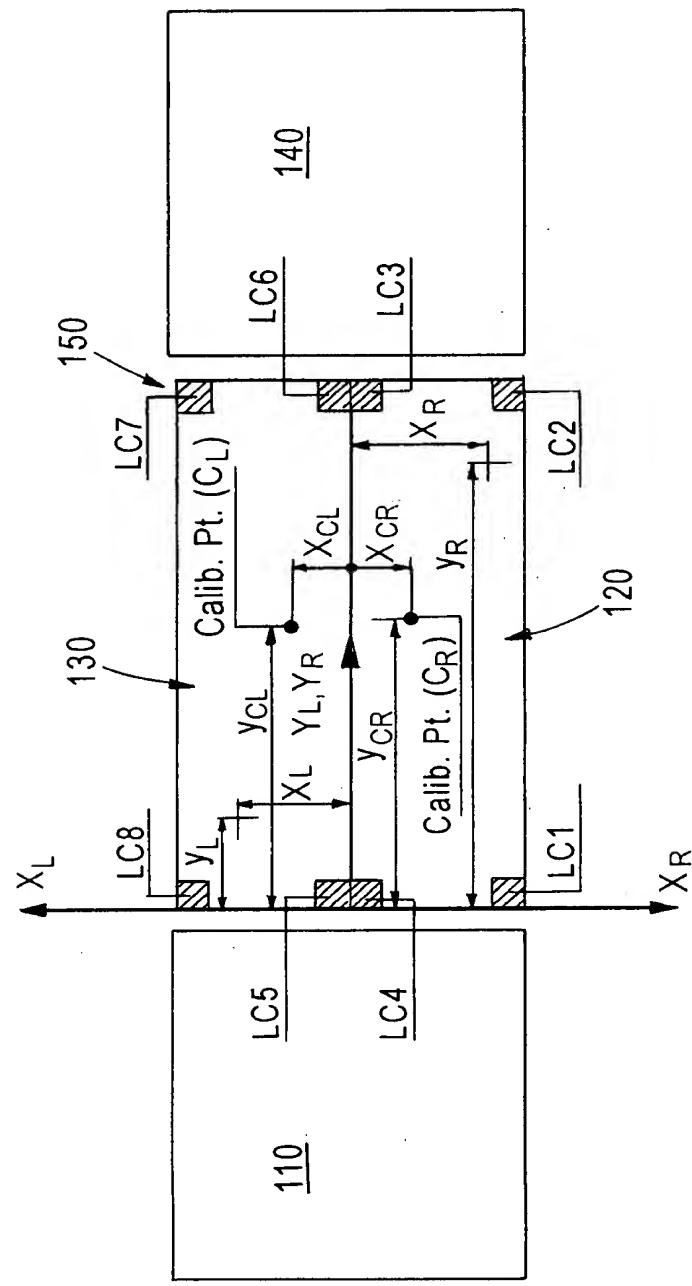


FIG. 1(c)

FIG. 2(i)

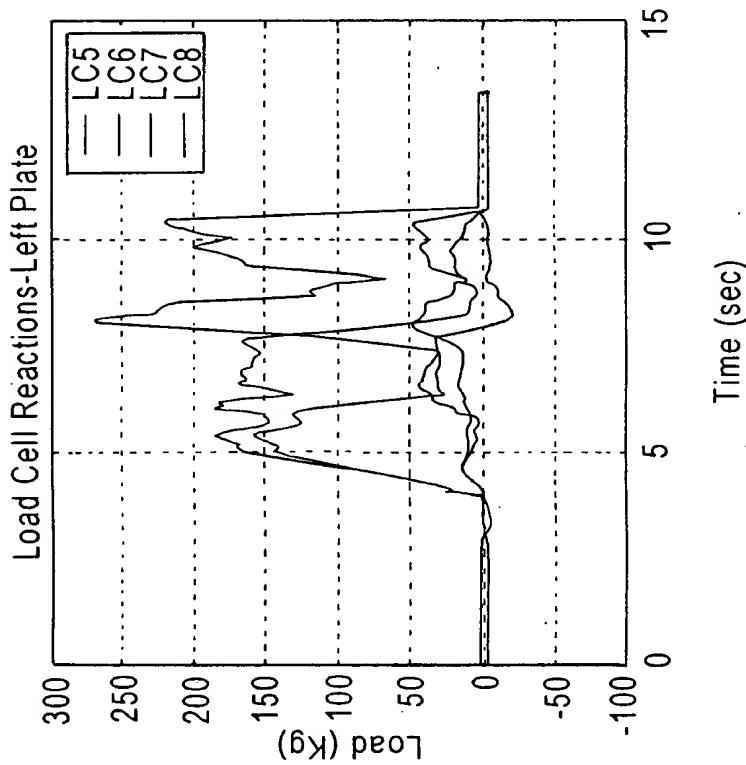
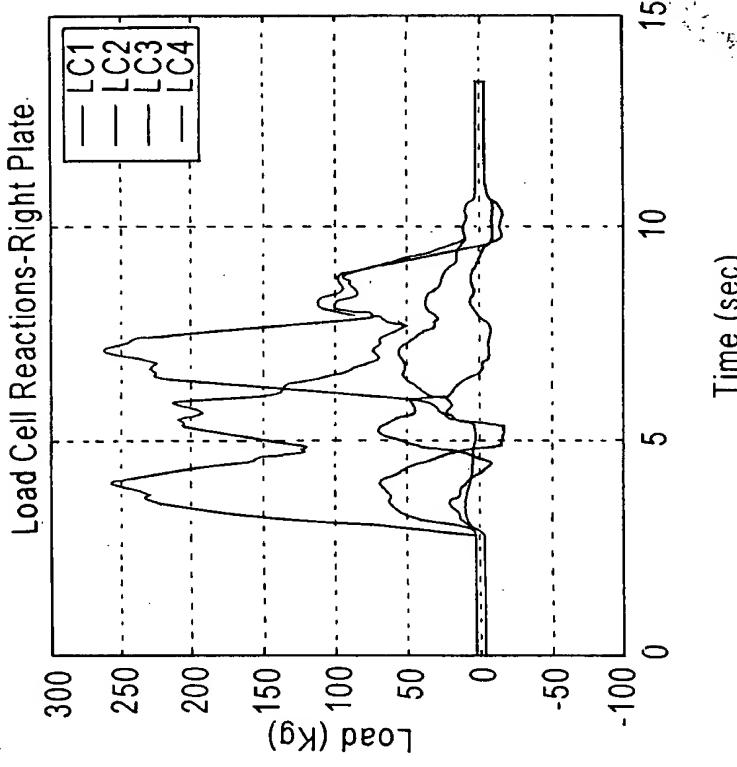


FIG. 2(ii)



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FIG. 2(iv)

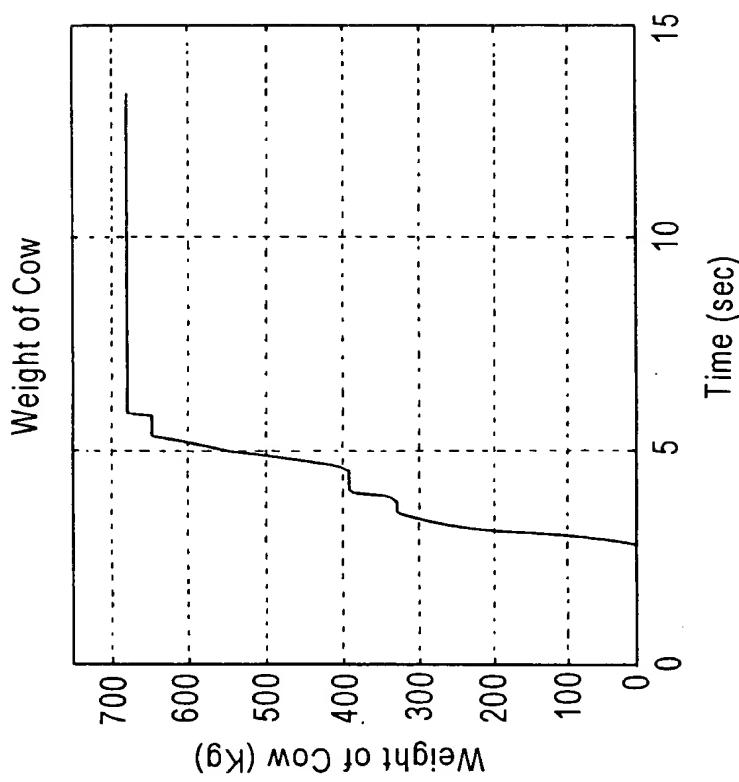


FIG. 2(iii)

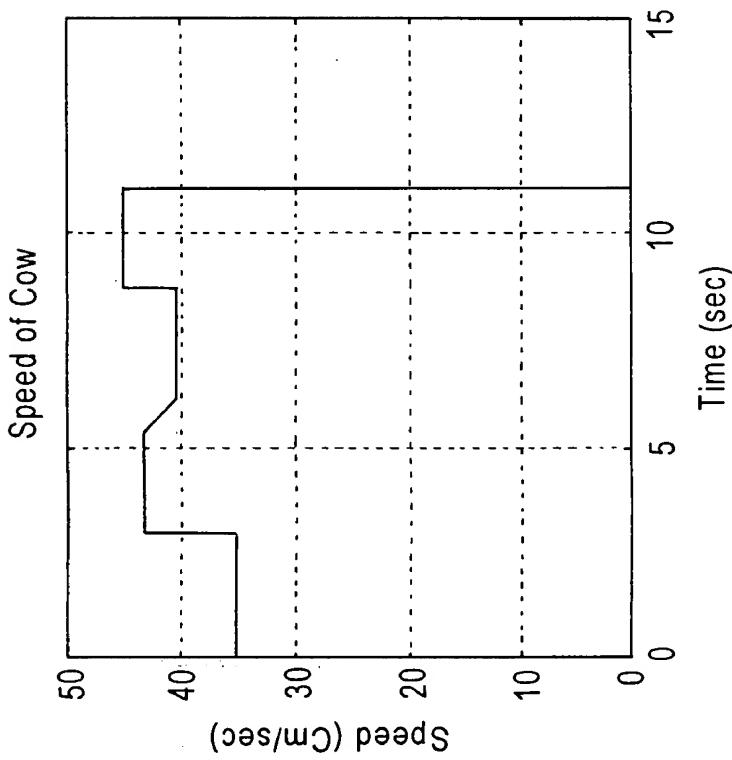


FIG. 3(i)

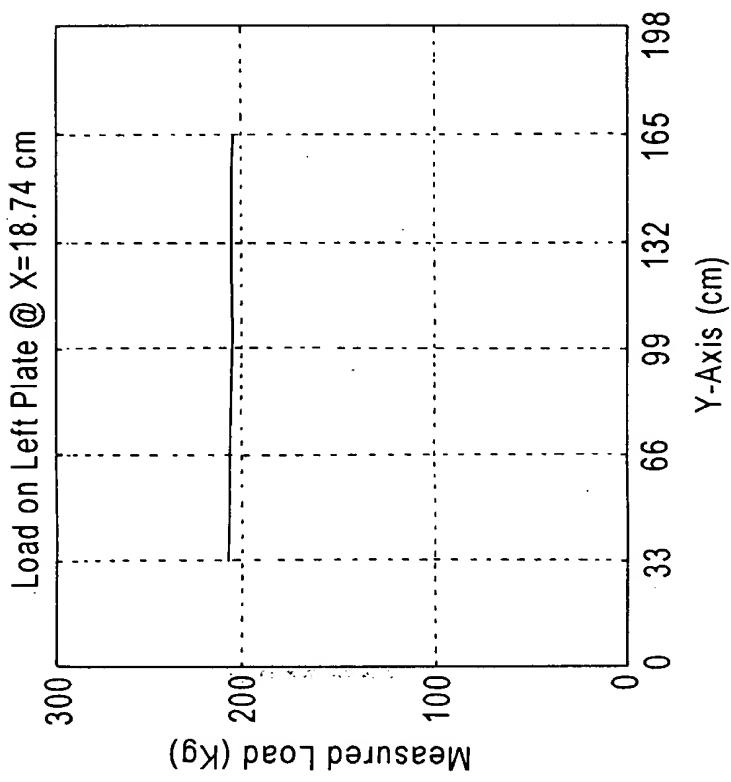


FIG. 3(ii)

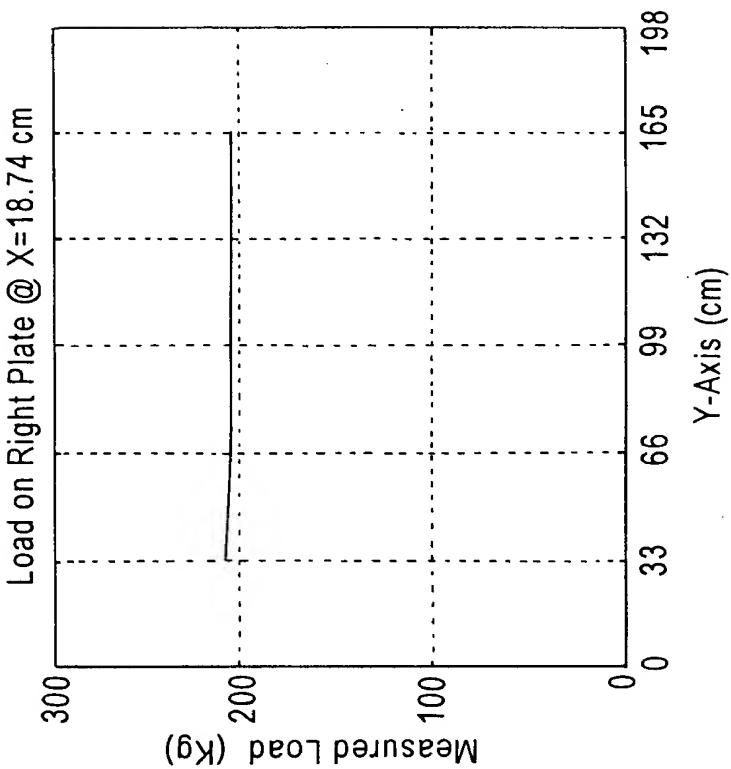


FIG. 3(iii)

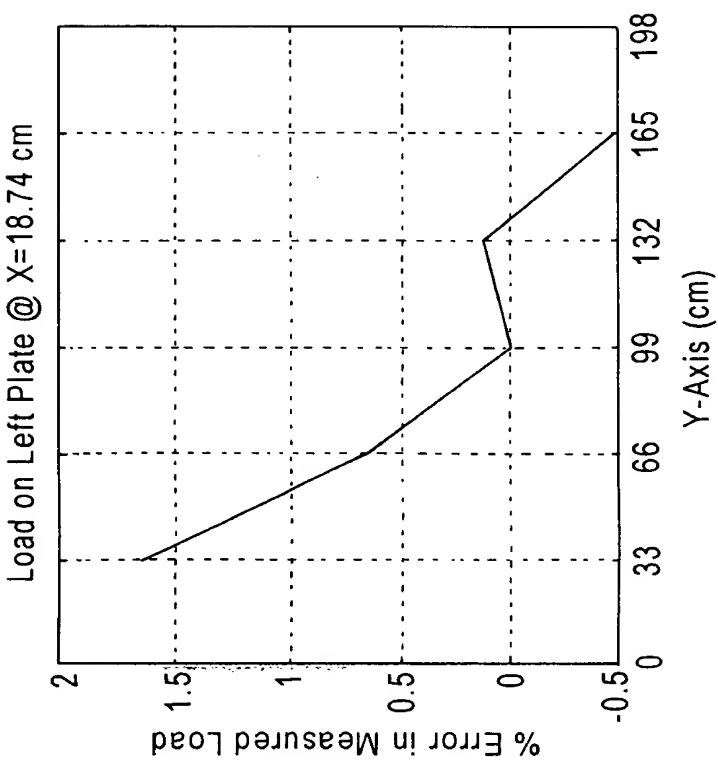


FIG. 3(iv)

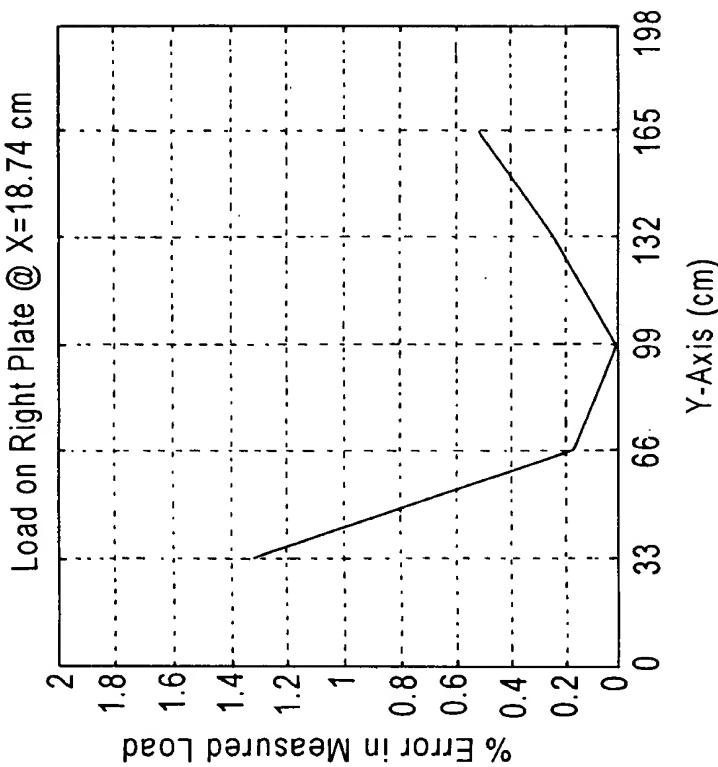


FIG. 4(i)

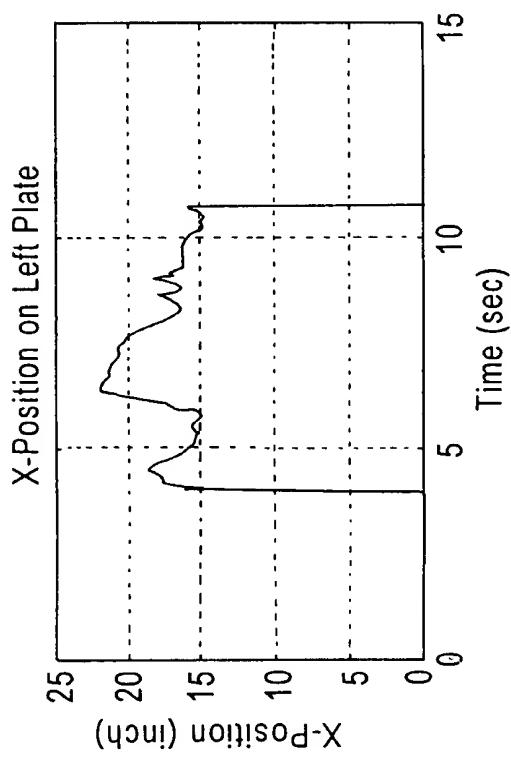


FIG. 4 (ii)

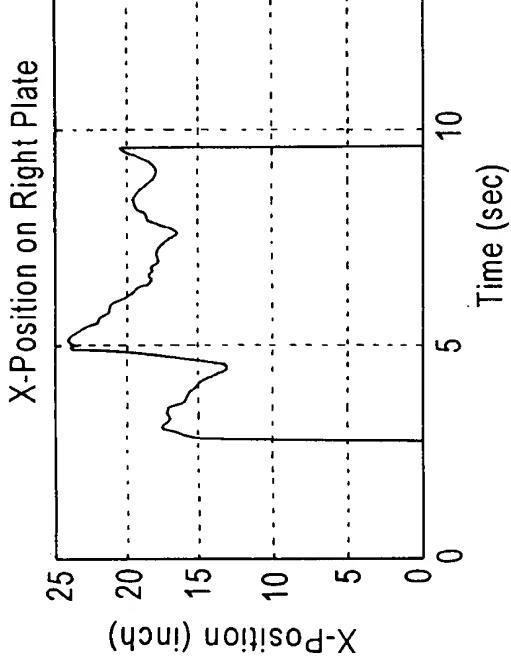


FIG. 4 (iii)

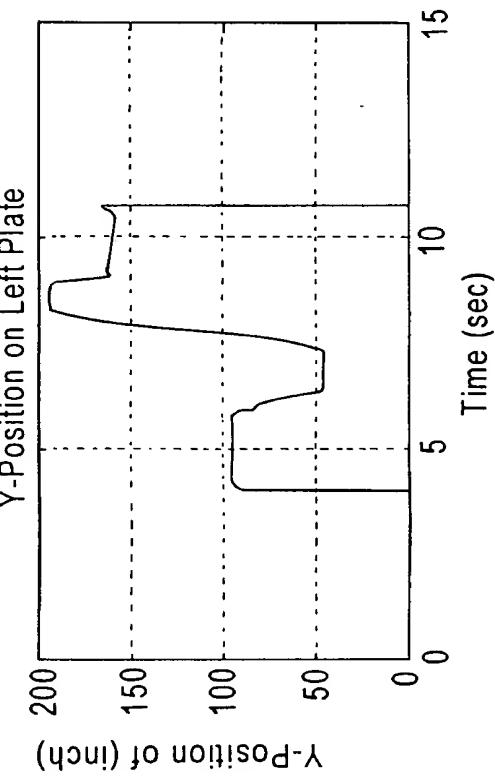
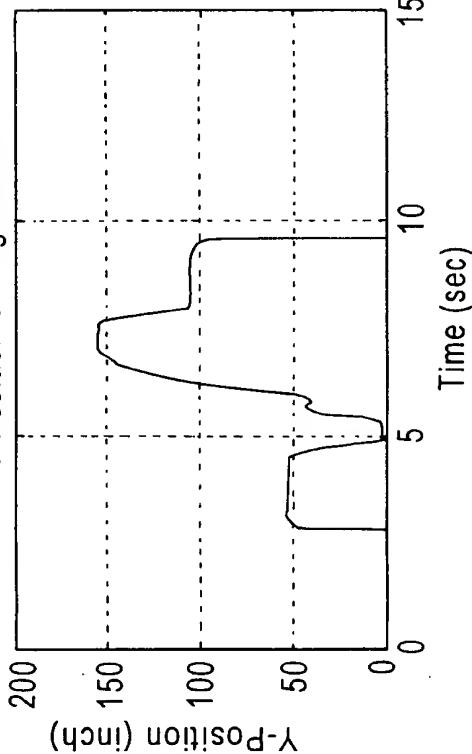


FIG. 4(IV)  
-Position on Right Plate



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FIG. 4(vi)

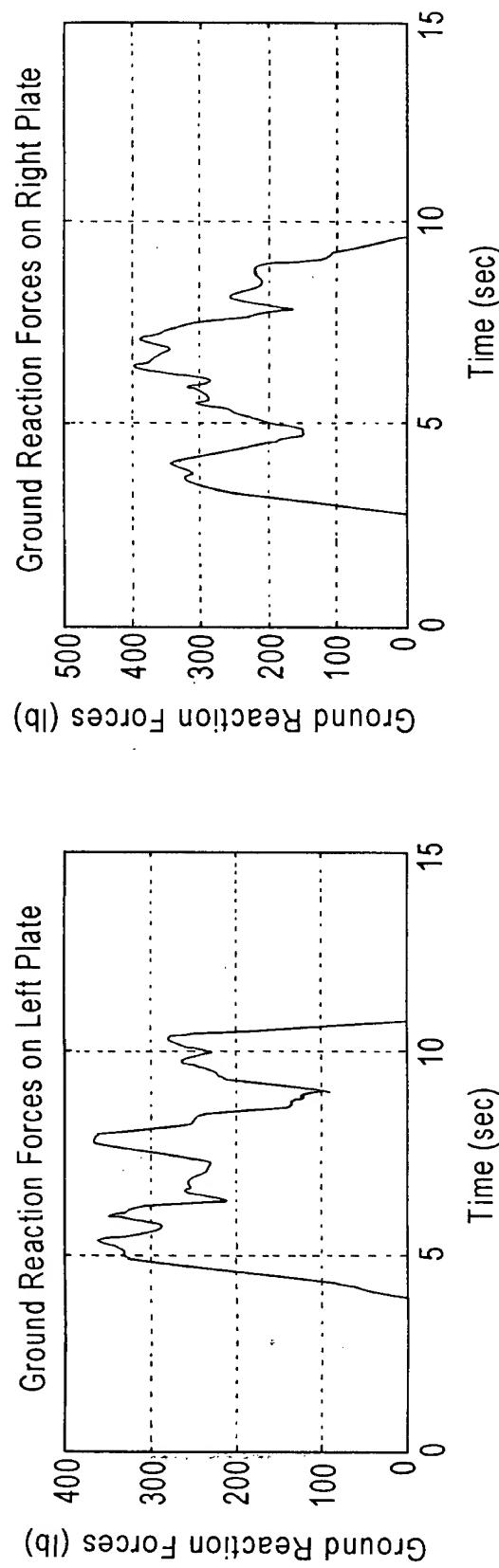


FIG. 5(i)      FIG. 5(ii)

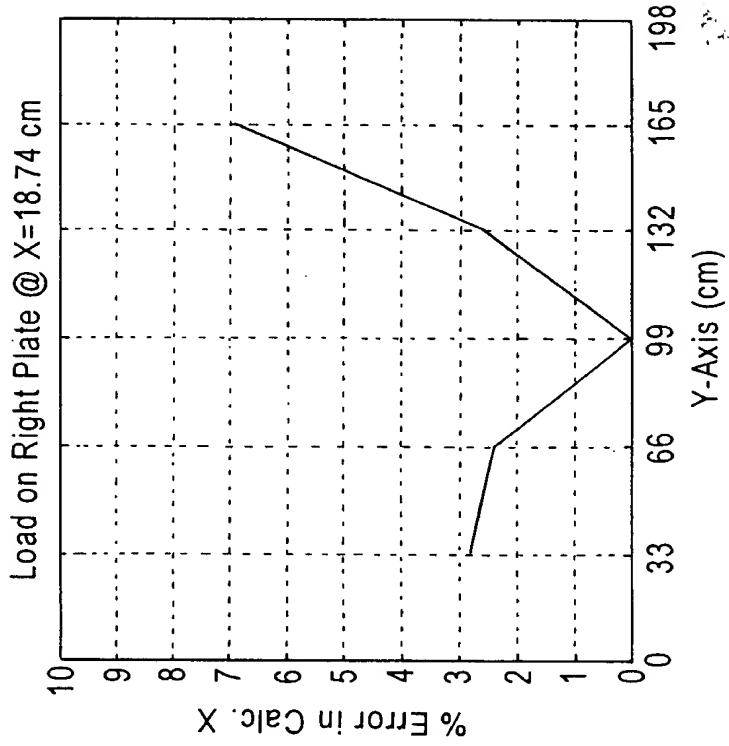
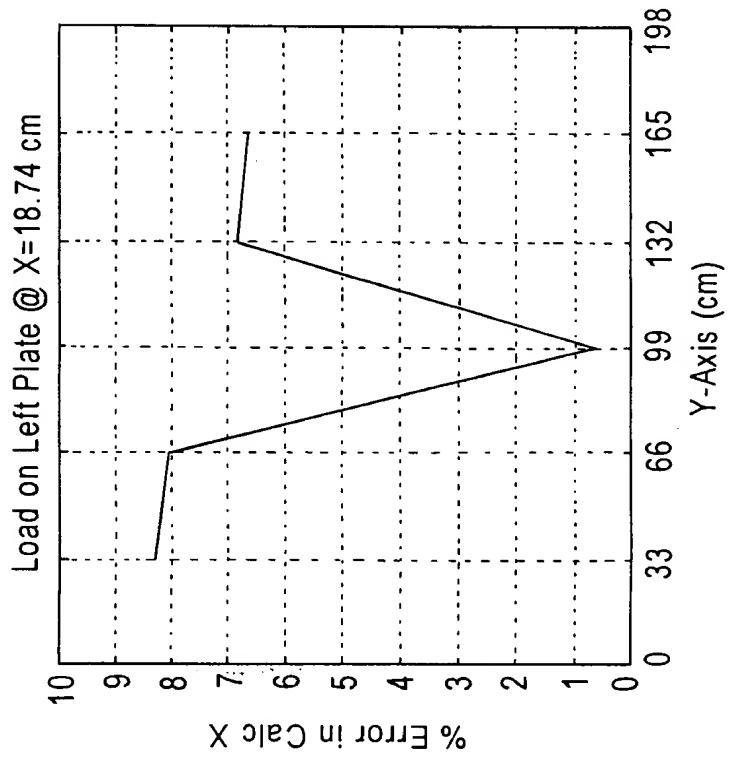


FIG. 5(iii)

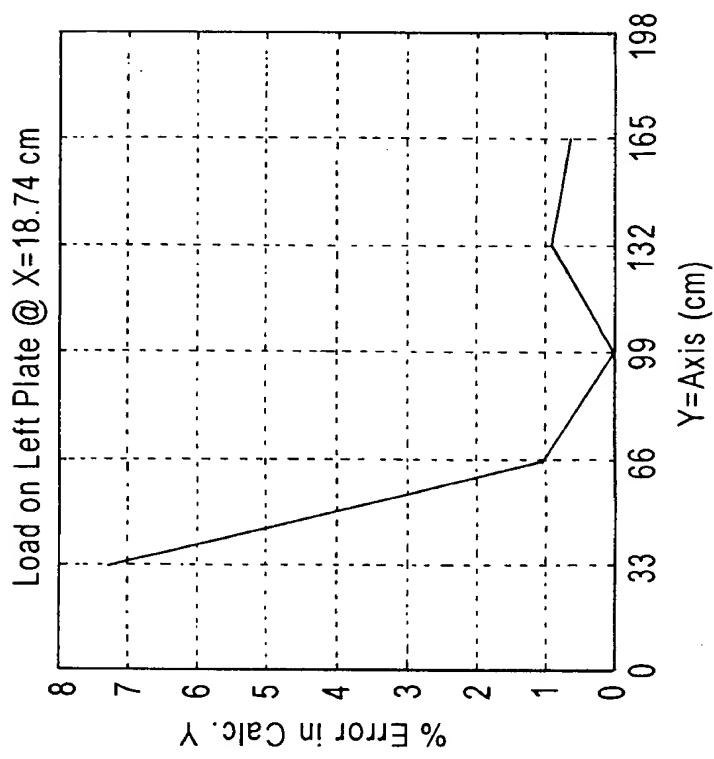


FIG. 5(iv)

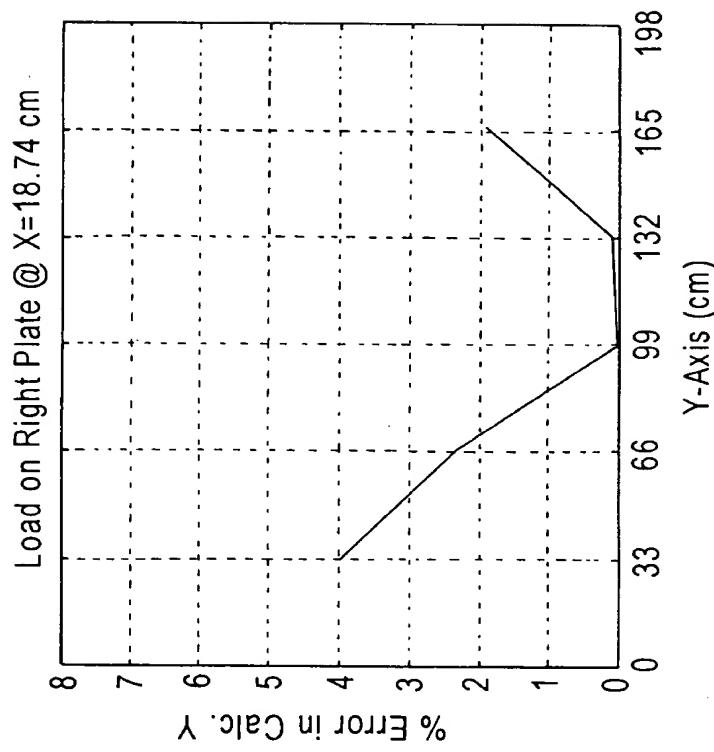


FIG. 6(i)

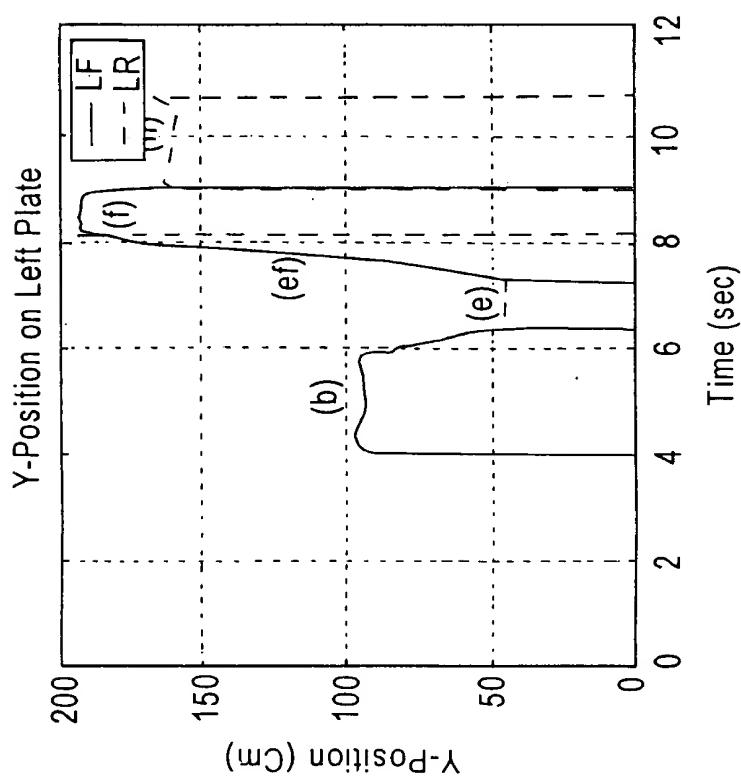
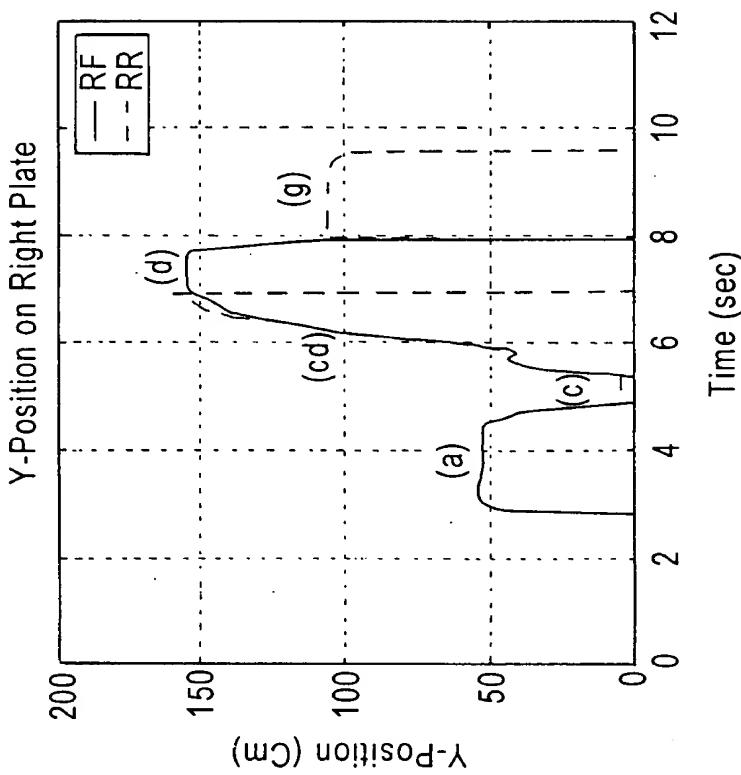
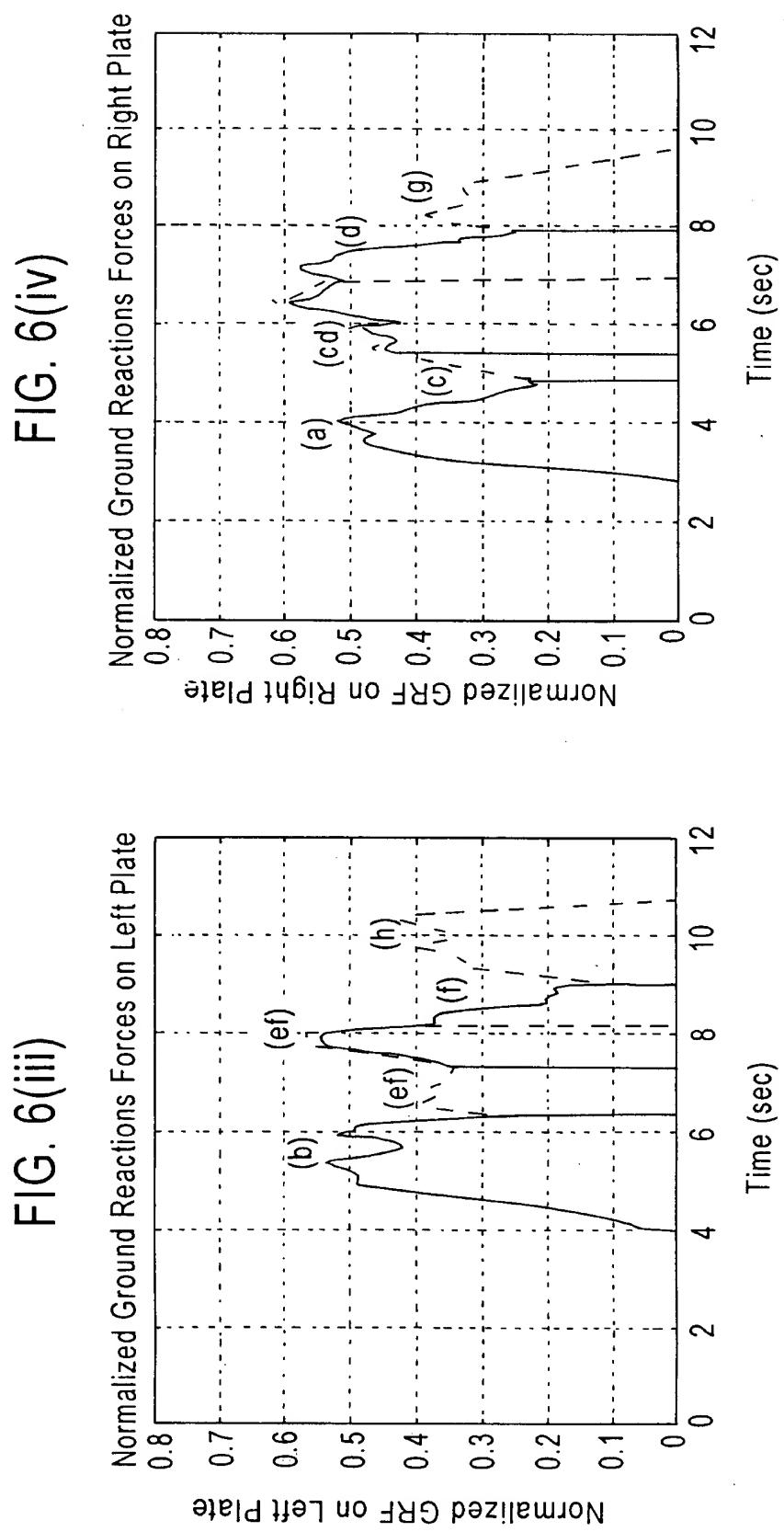


FIG. 6(ii)







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FIG. 7(i)

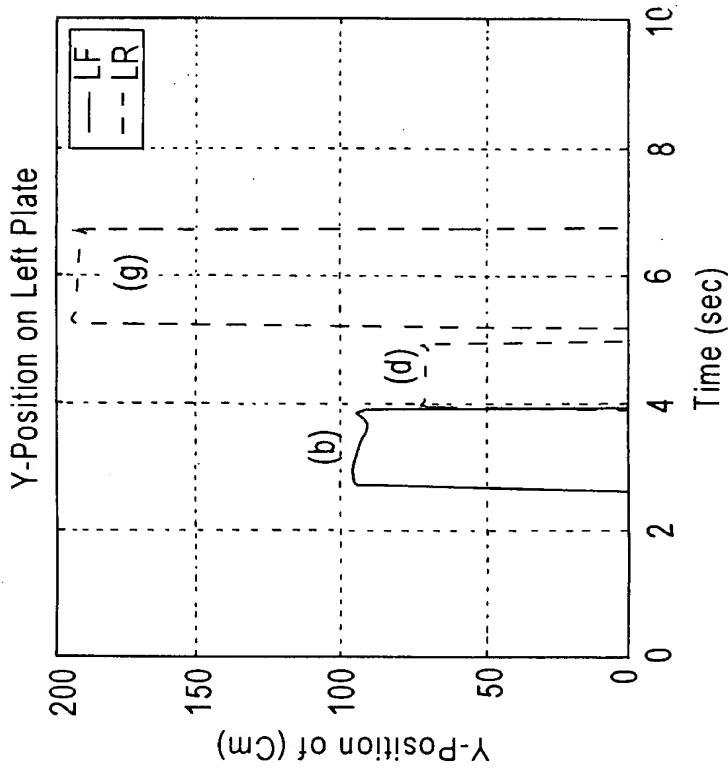
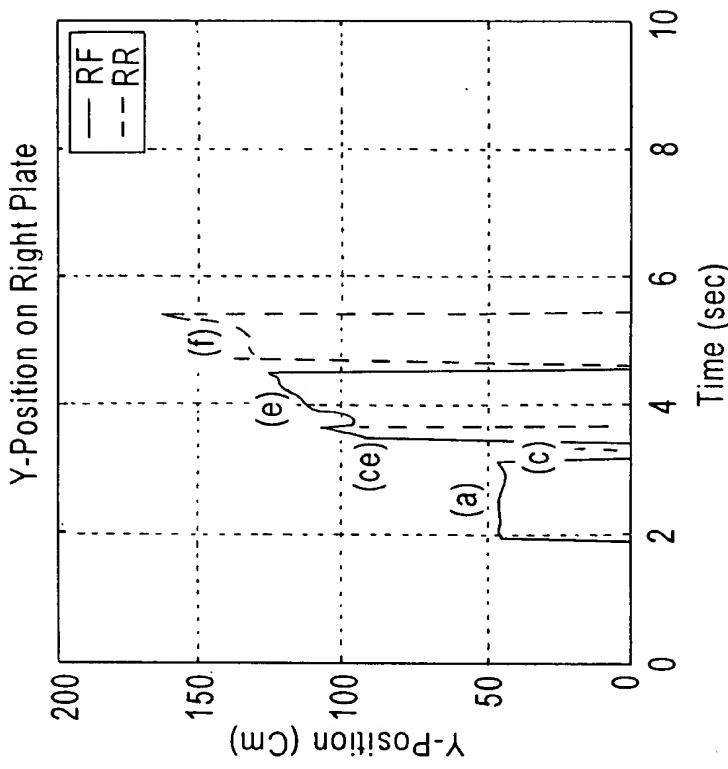


FIG. 7(ii)



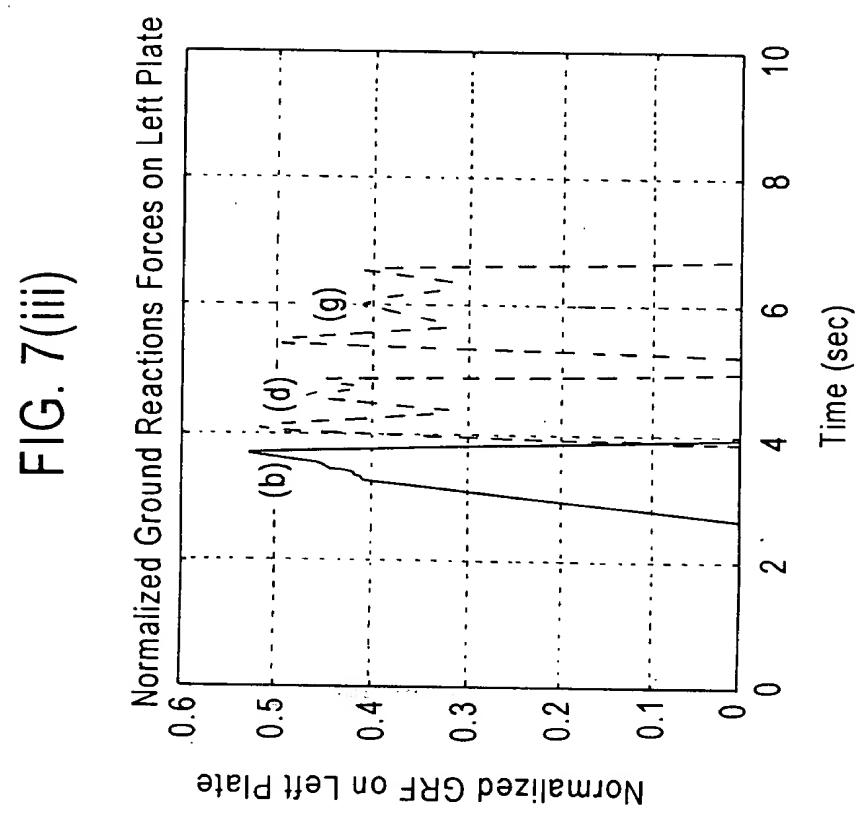


FIG. 7 (iii)

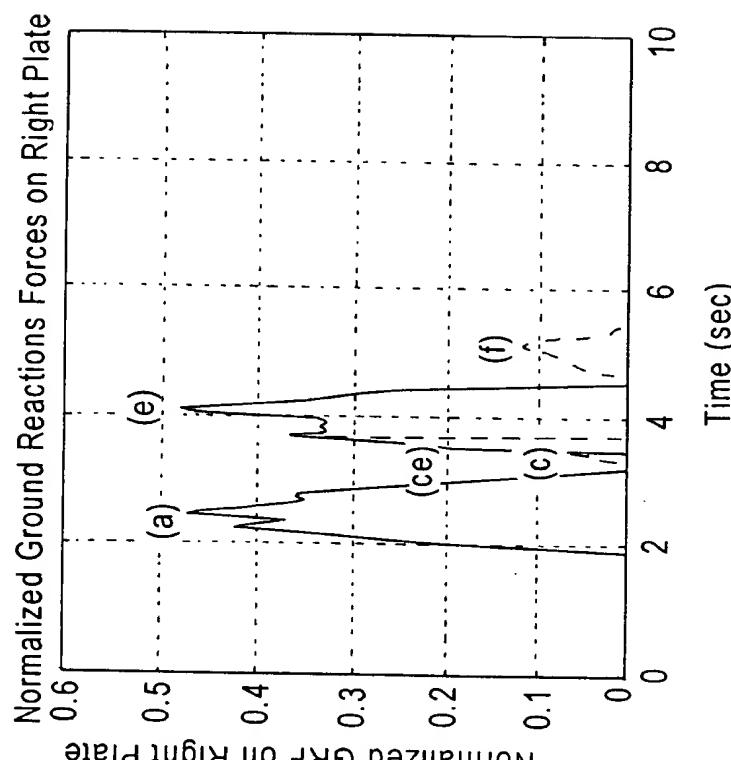
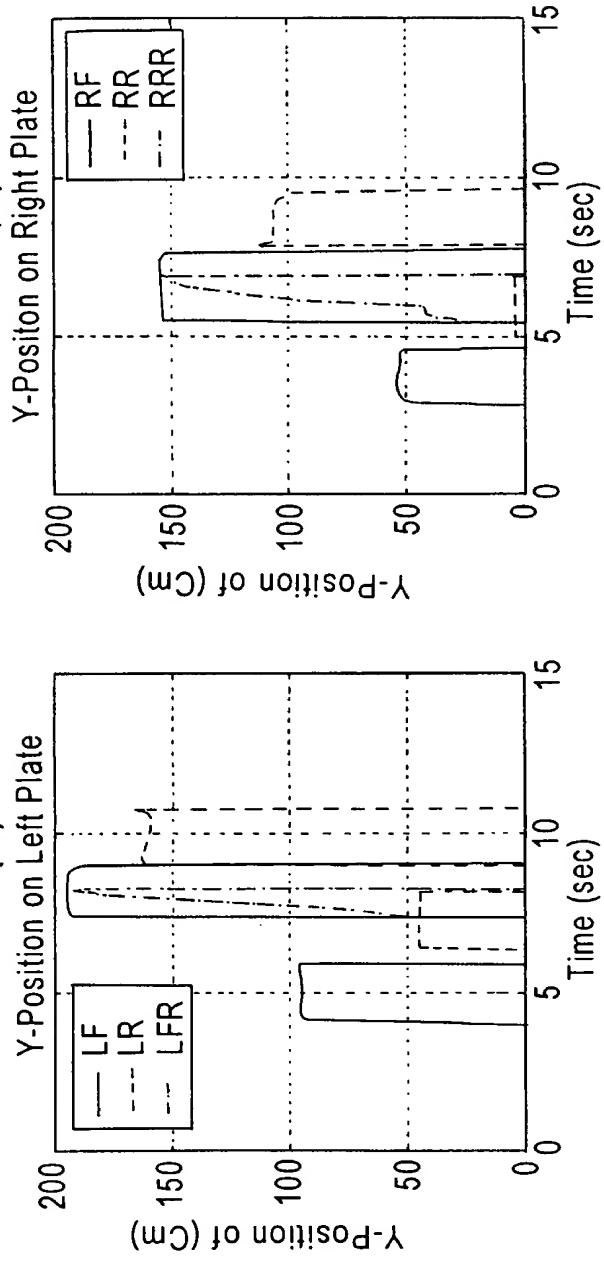
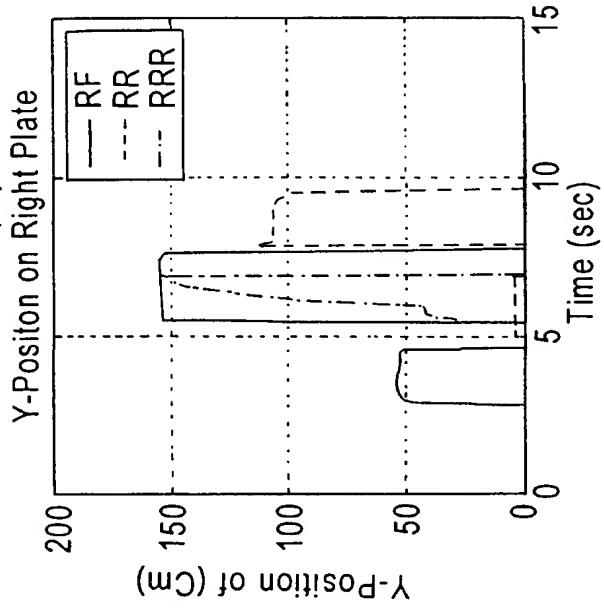


FIG. 7(iv)

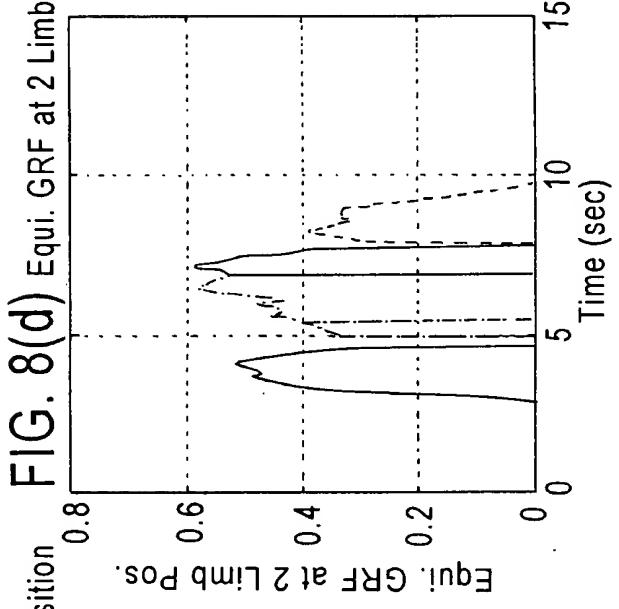
**FIG. 8(a)**



**FIG. 8(b)**



**FIG. 8(d) Equi. GRF at 2 Limb Position**



**FIG. 8(c) Equi. GRF at 2 Limb Position**

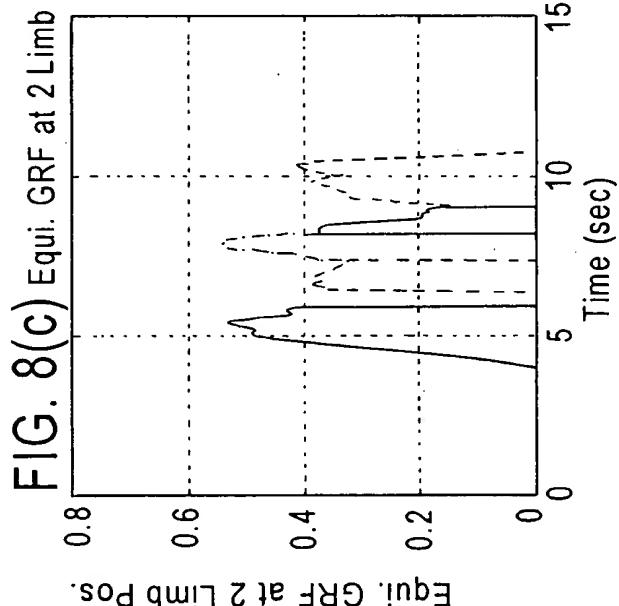


FIG. 8(e)

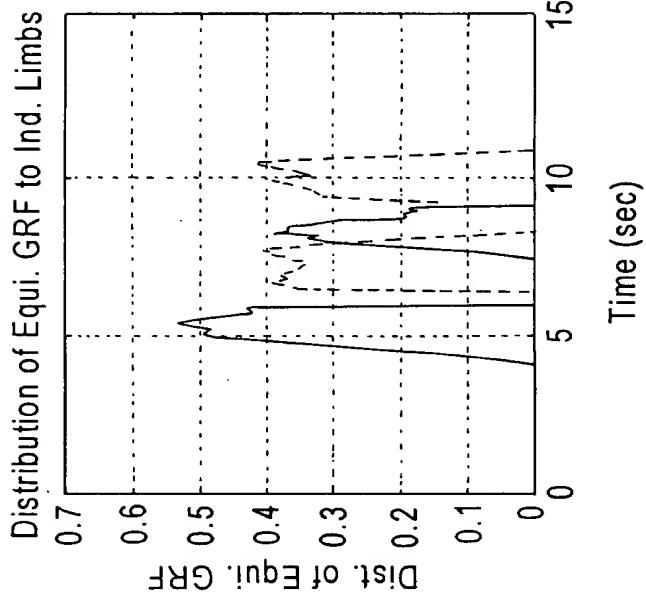


FIG. 8(f)

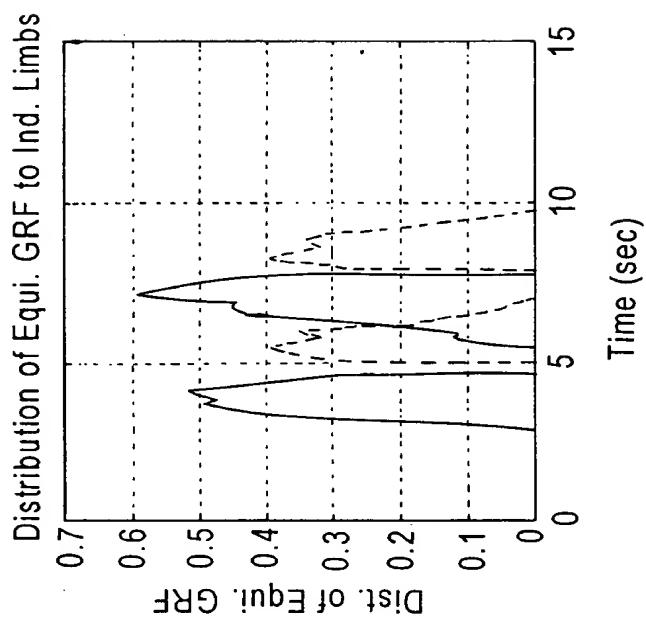


FIG. 9(a)

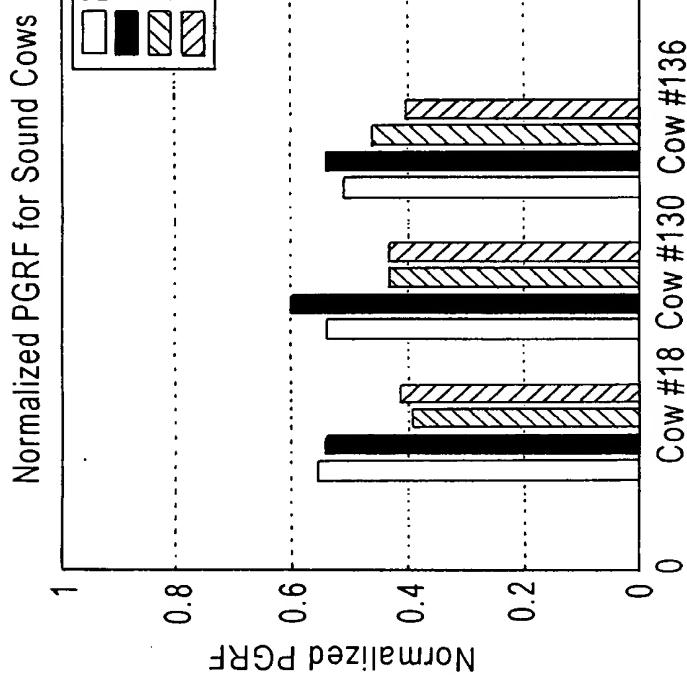


FIG. 9(c)

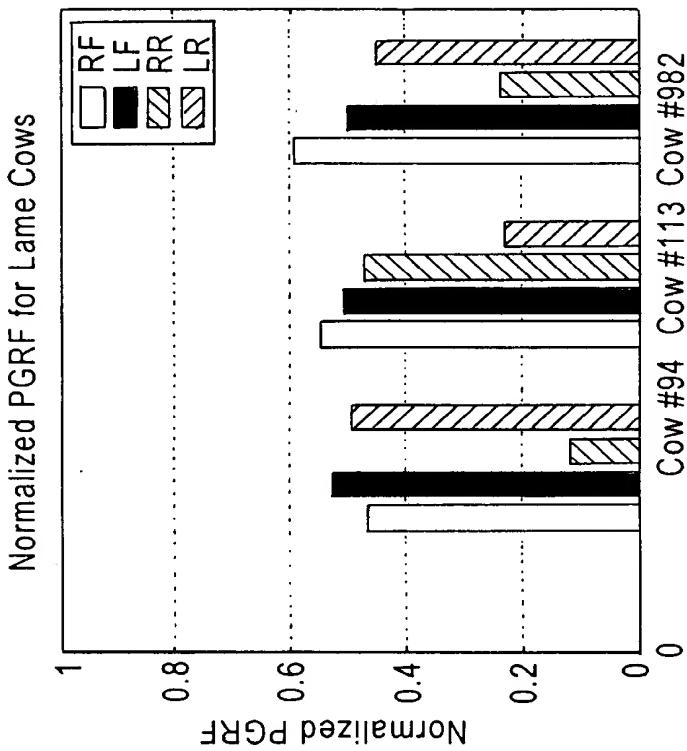


FIG. 9(b)

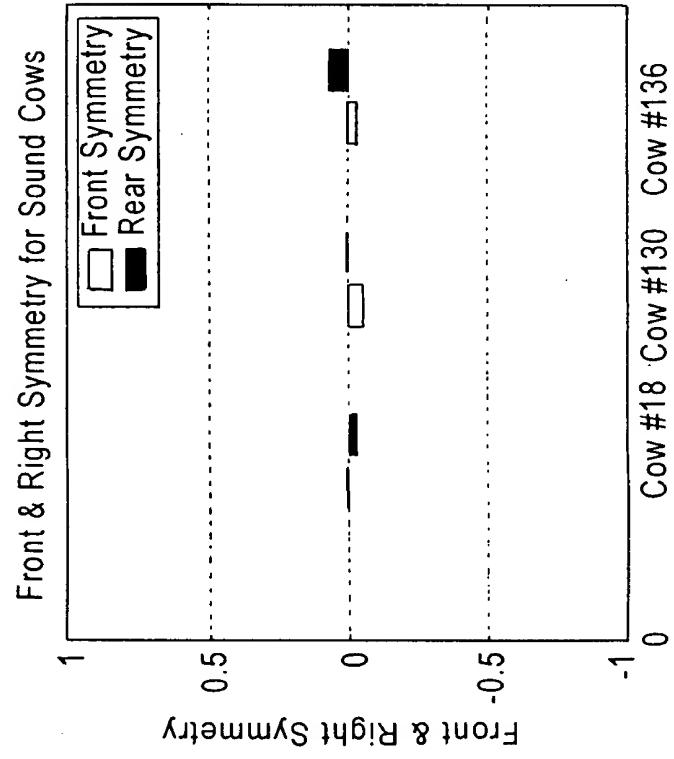
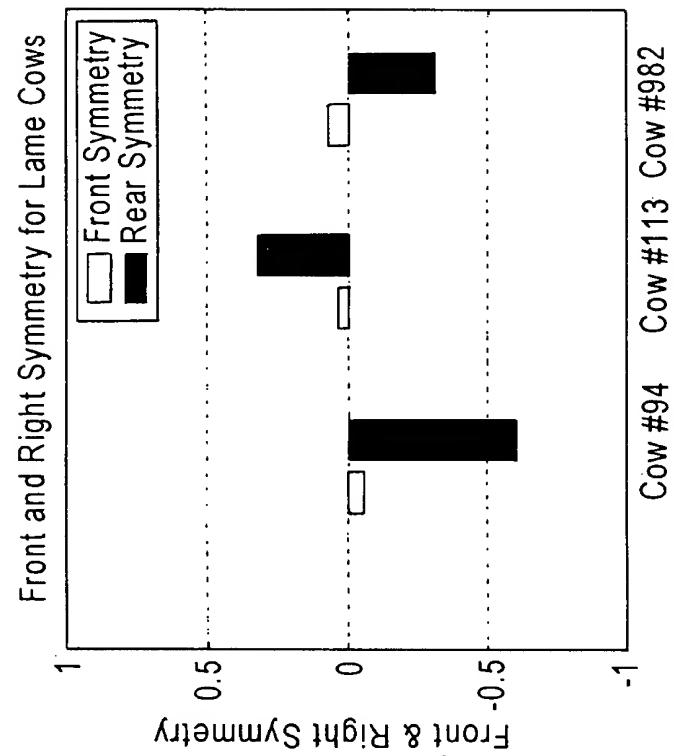


FIG. 9(d)



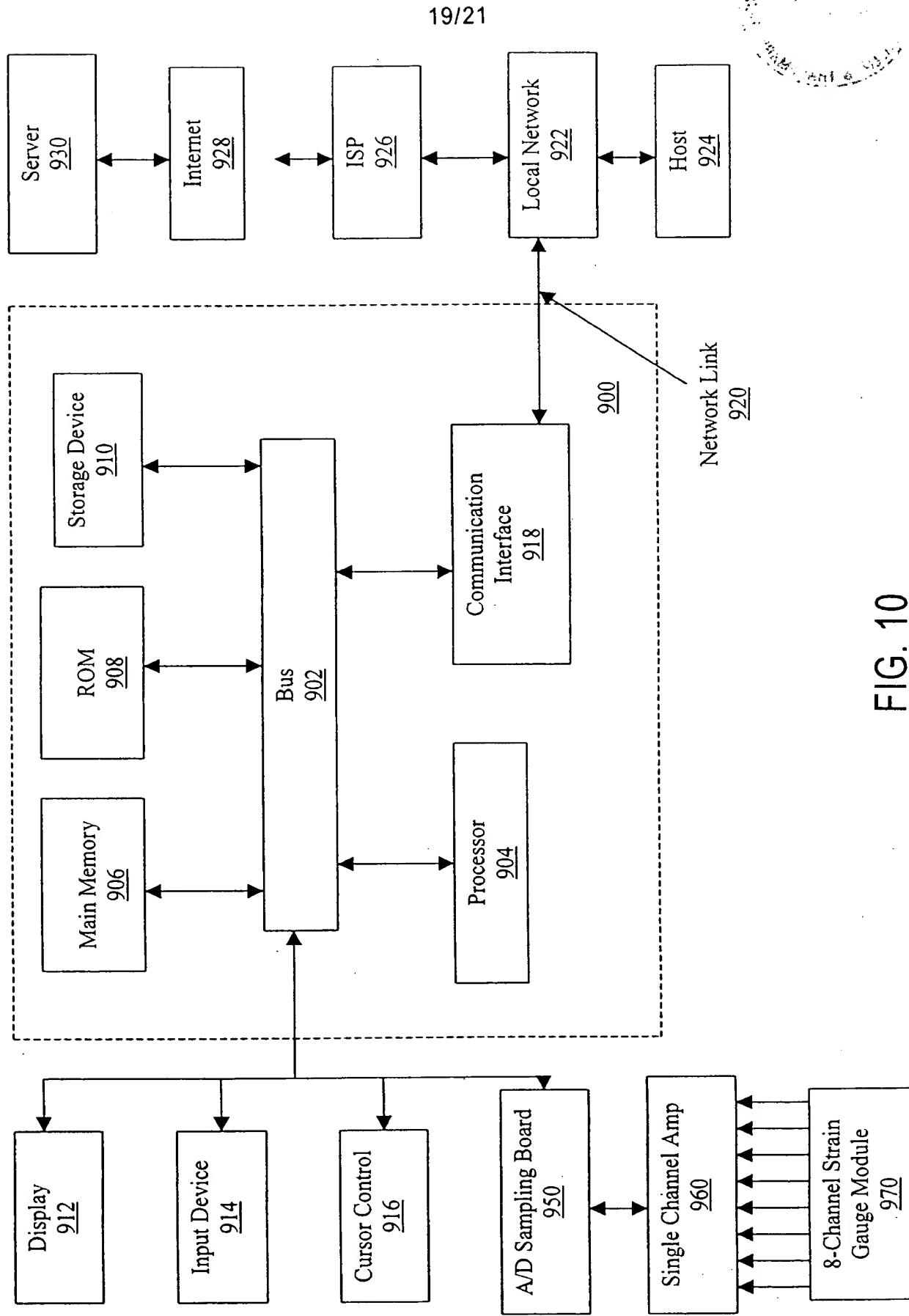


FIG. 10

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**Limb movement variables of Individual Limbs of Sound Cows 973 and 984**

Limb Movement Variables	Sound Cow 973				Sound Cow 984			
	Left Front [LF]	Right Front [RF]	Left Rear [LR]	Right Rear [RR]	Left Front [LF]	Right Front [RF]	Left Rear [LR]	Right Rear [RR]
Normalized PGRF	0.49	0.52	0.39	0.51	0.56	0.59	0.41	0.44
Stance time (sec)	1.00	0.89	1.00	0.97	1.11	1.10	0.92	1.10
Impulse (sec)	0.34	0.33	0.30	0.35	0.40	0.40	0.26	0.31
Normalized AGRF	0.34	0.37	0.30	0.36	0.36	0.36	0.28	0.29
Step size (cm)	NA	NA	NA	NA	NA	NA	114	NA
Energy (1/sec)	0.47	0.47	0.37	0.40	0.54	0.55	0.41	0.35
P-energy (1/sec <sup>2</sup> )	4.51	4.70	3.32	3.34	5.15	5.32	3.77	2.81

FIG. 11

Limb movement variables of Individual Limbs of Lame Cows 113 and 982

Limb Movement Variables	Lame Cow 113				Lame Cow 982			
	Left Front [LF]	Right Front [RF]	Left Rear [LR]	Right Rear [RR]	Left Front [LF]	Right Front [RF]	Left Rear [LR]	Right Rear [RR]
Normalized PGRF	0.47	0.53	0.19	0.41	0.55	0.57	0.36	0.27
Stance time (sec)	2.00	1.40	1.05	1.50	1.14	0.97	1.27	0.99
Impulse (sec)	0.67	0.44	0.11	0.53	0.40	0.35	0.33	0.16
Normalized AGRF	0.33	0.32	0.10	0.36	0.35	0.36	0.26	0.17
Step size (cm)	84	NA	117	NA	96	102	92	142
Energy (1/sec)	0.41	0.33	0.12	0.33	0.46	0.54	0.30	0.20
P-energy (1/sec <sup>2</sup> )	3.74	1.44	1.04	2.20	4.50	5.14	2.55	1.40

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FIG. 12